

Appl. No. 10/581,117
Amendment and/or Response
Reply to Office action of 12 December 2007

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Amendments to the Claims:

A listing of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR 1.121. This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Original) A method for adaptively minimising the total power consumption of an apparatus comprising a subsystem comprising a mass storage device and a buffer memory, said method comprising the steps of

determining an optimum buffer size for which the power consumption of said subsystem is a minimum for a given streaming bit-rate to/from said buffer memory, and

adjusting the buffer size of said buffer memory to said optimum buffer size, such that the power consumption of said subsystem is minimal.

2. (Original) The method according to claim 1, wherein said step of adjusting the buffer size comprises switching on memory banks and/or memory ICs of said buffer memory for increasing the size of said buffer memory, and switching off memory banks and/or memory ICs for decreasing said buffer memory.

3. (Previously presented) The method according to claim 1, wherein the storage device is a harddisk drive and the step of determining an optimum buffer size comprises

determining a harddisk drive data rate,

determining the stream bit-rate to/from the buffer memory, and

determining the optimum buffer size having the lowest power consumption at the determined stream bit-rate.

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4. (Original) The method according to claim 3, wherein said optimum buffer size determination step comprises calculating optimum buffer size from a formula, looking up optimum buffer size in a look-up table or measuring the minimum power

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